WHAT IS CLAIMED IS:

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1. A drive method of a CCD color image sensor, comprising the steps of:

transferring signal charges in a photoelectric conversion element group of each color to a shift register by opening a shift gate of each color after transferring unnecessary charges in the photoelectric conversion element group of each color in the shift register;

during the time period of transferring the signal charges

in the photoelectric conversion element group of each color
in the shift register, shutting the shift gate of each color
and accumulating unnecessary charges in the photoelectric
conversion element group of each color;

opening the shift gate of each color and transferring the unnecessary charges occurring in the photoelectric conversion element group of each color to the shift register; and

sequentially shutting the shift gates of colors and continuing to shut each of the shift gates in response to the time period set for each color, thereby accumulating the signal charges in the photoelectric conversion element group of each color.

2. A drive method of a CCD color image sensor, comprising
25 the steps of:

transferring unnecessary charges occurring in a photoelectric conversion element group of each color in a shift register in a time period of accumulating signal charges in the photoelectric conversion element group of each color; and

transferring the signal charges accumulated in the photoelectric conversion element group of each color in response to a different time period for each color set in the photoelectric conversion element group of each color in the shift register in the time period of accumulating the unnecessary charges in the photoelectric conversion element group of each color.

3. A color image input apparatus comprising:

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a CCD color image sensor including a photoelectric conversion element group of each color, a shift gate of each color, and a shift register of each color;

means for transferring signal charges in the photoelectric conversion element group of each color to the shift register by opening the shift gate of each color after transferring unnecessary charges in the photoelectric conversion element group of each color to the shift register;

means for, during the time period of transferring the signal charges in the photoelectric conversion element group of each color to the shift register, shutting the shift gate of each color and accumulating unnecessary charges in the photoelectric conversion element group of each color;

means for opening the shift gate of each color and transferring the unnecessary charges occurring in the photoelectric conversion element group of each color to the shift register; and

means for shutting the shift gates of colors in order and continuing to shut each of the shift gates in response to the time period set for each color, thereby accumulating the signal charges in the photoelectric conversion element group of each color.

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4. A color image input apparatus comprising:

a CCD color image sensor including a photoelectric conversion element group of each color and a shift register of each color;

means for transferring unnecessary charges occurring in a photoelectric conversion element group of each color in a shift register in a time period of accumulating signal charges in the photoelectric conversion element group of each color; and

means for transferring the signal charges accumulated in the photoelectric conversion element group of each color in response to a different time period for each color set in the photoelectric conversion element group of each color in the shift register in the time period of accumulating the unnecessary charges in the photoelectric conversion element

group of each color.